

N61165.AR.005731
CNC CHARLESTON
5090.3a

WATER WELL RECORDS FOR BUILDINGS 647, 654, 240, 241, AND 590A CNC
CHARLESTON SC
01/31/2002
ENVIRONMENTAL ENTERPRISE GROUP



Environmental Enterprise Group, Inc.
1949 Avenue D
North Charleston, SC 29405-2106
TEL (843) 202-8008
FAX (843) 202-8001
<http://www.eeginc.net>

RECEIVED

January 31, 2002
Ser 245

FEB 4 2002

Water Monitoring, Assessment &
Protection Division

Mr. Michael Bishop
Bureau of Water
2600 Bull Street
Columbia, SC 29201-1708

Re: UST Monitoring Wells abandoned on Charleston Naval Complex

Dear Mr. Bishop,

Please find enclosed Water Well Records, DHEC form 1903, for the Monitoring Wells listed below that have been abandoned at UST locations throughout the Charleston Naval Complex. EEG, Inc. was requested to forward these forms for work performed under a contractual agreement with CH2M-Jones, LLC.

Site 05 / Building 647

SC DHEC # 01165

CNC05-M04

CNC05-M05

Site 09 / Building 654

SC DHEC # 00963

CNC09-M07

Site 20 / Building 240

SC DHEC # 14689

CNC20-MW01

Site 21 / Building 241

SC DHEC # 17706

CNC21-MW02

CNC21-MW03

CNC21-MW04

CNC21-MW05

CNC21-MW06

CNC21-MW08

Site 28 / Building 590A

SC DHEC #00956

CNC28-M03

If there are any questions or if more information is needed, please contact J. N. K. Tunstall at (843) 202-8008.

Sincerely,

Richard Albers
Vice President

Encl.: DHEC form 1903, Water Well Records

Cc: Mr. Paul Bergstrand, RCRA Hydrology Section, Bureau of Land and Waste Management, 2600 Bull St., Columbia, SC 29201-1708



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 734-5300

1. LOCATION OF WELL:

County: Charleston System Name:

Latitude: Longitude:

Distance and Direction from Road Intersections:

St Address & City of Well Loc: 2010 Bainbridge Ave, N. Chas

Sketch Map:

See Map. Well Number: CNC05-M04

4. OWNER OF WELL: Department of the Navy

Address:

Telephone No.:

Engineer:

Address:

Telephone No.:

5. WELL DEPTH (completed)

Date Started:

Date Completed:

6. ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug
☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. USE:

- ☐ Domestic ☐ Public Supply-Permit No. _____ ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☒ Monitor Well ☐ _____

8. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

2. CUTTING SAMPLES:

☐ s

☐ p

Geophysical Logs: ☐ s (please enclose) ☐ p

9. SCREEN

Type:

Diam.:

Soil Gauge:

Length:

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

Sieve Analysis ☐ Yes (please enclose) ☐ No

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

10. STATIC WATER LEVEL

_____ ft. below land surface after 24 hours

11. PUMPING LEVEL Below Land Surface.

_____ ft. after _____ hrs. Pumping _____ G.P.M.

Pumping Test: ☐ Yes (please enclose) ☐ No

Yield: _____

12. WATER QUALITY

Chemical Analysis ☐ Yes ☐ No

Bacterial Analysis ☐ Yes ☐ No

Please enclose lab results.

13. ARTIFICIAL FILTER (gravel pack) ☐ Yes ☐ No

Installed from _____ ft. to _____ ft.

Effective size _____ Uniformity Coefficient _____

14. WELL GROUTED? ☐ Yes ☐ No

☐ Neat Cement ☐ Sand Cement ☐ Concrete ☐ Other _____

Depth: From _____ ft. to _____ ft.

15. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction

_____ Type well disinfected ☐ Yes Type: _____

upon completion ☐ No Amount: _____

16. PUMP: Date installed: _____ Not installed ☒

Mfr. Name: _____ Model No.: _____

H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm

TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine

☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

17. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Registered Business Name: EEG, INC Date: _____

Address: 1949 AVENUE D N. CHAS SC 29405

Signed: Thomas A. Brown Jr Cert. No.: 54

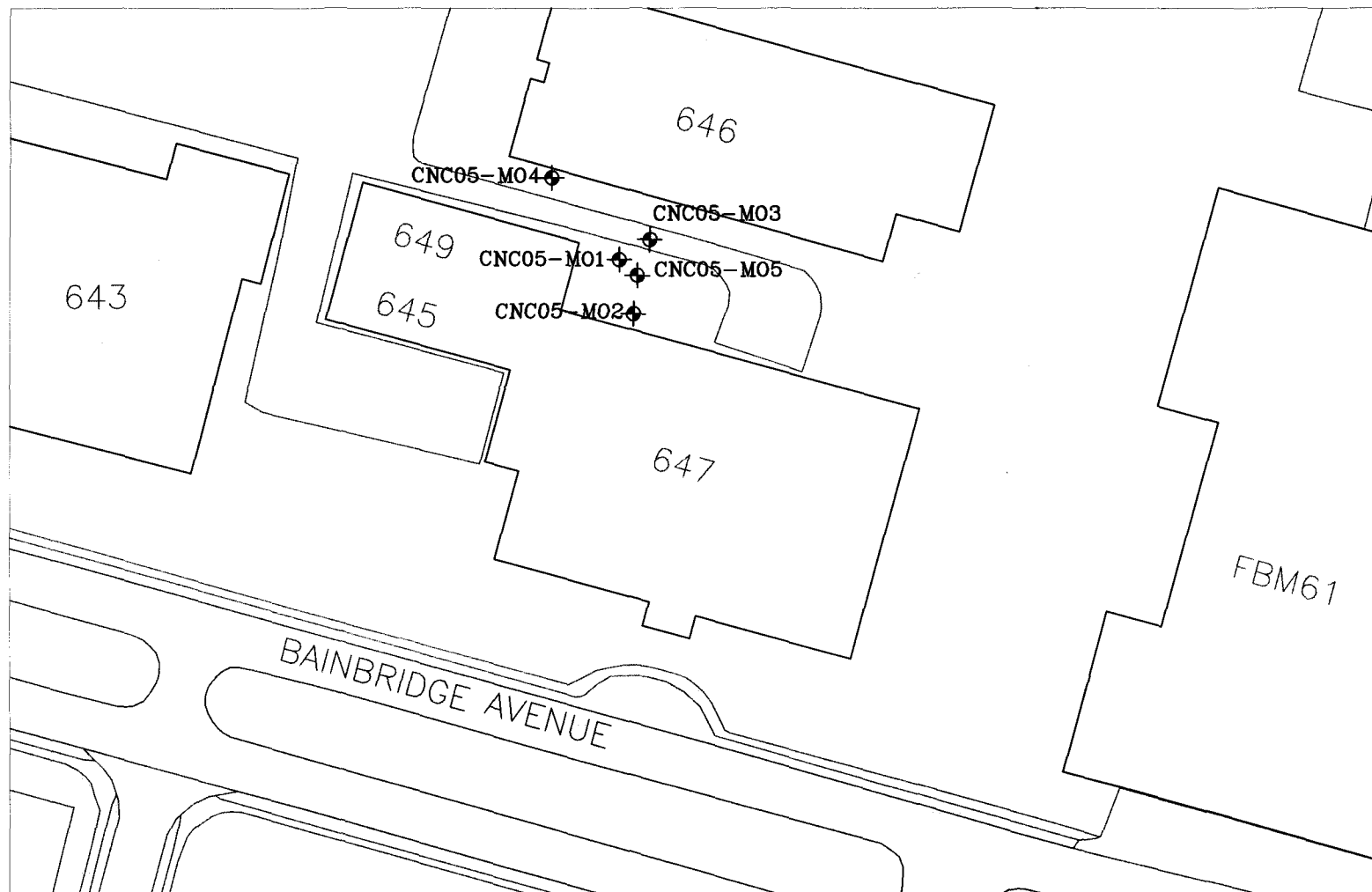
Authorized Representative

*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

3. REMARKS:

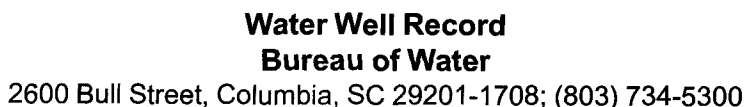
Zone H, Site 05/ Bldg 647, DHEC ID# 01165



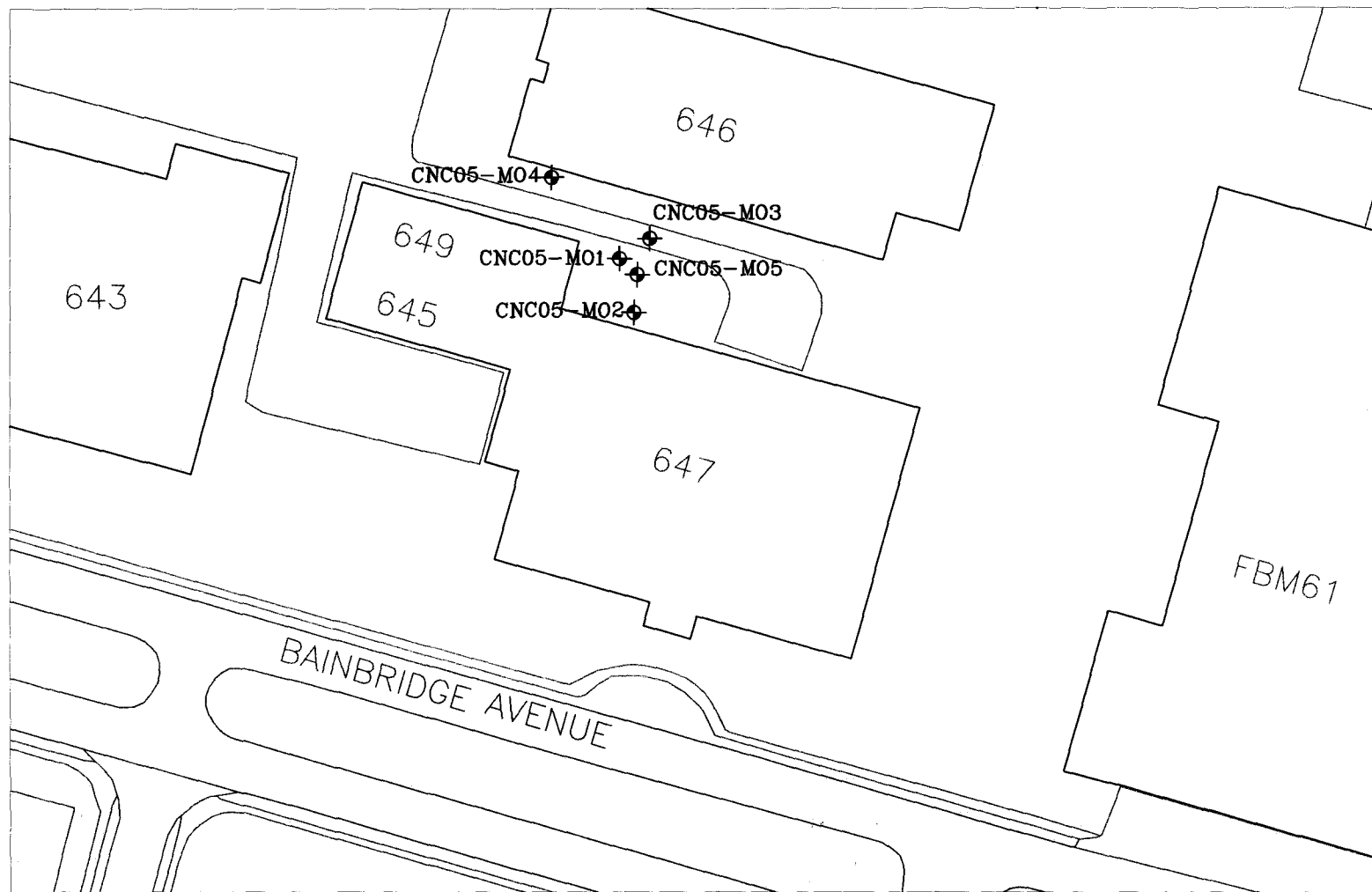
ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 01165
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	647WELLS	SHEET	1 OF 1



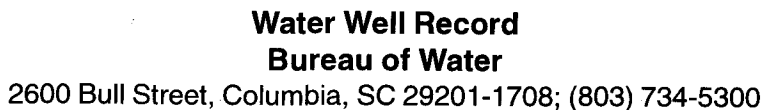
COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)



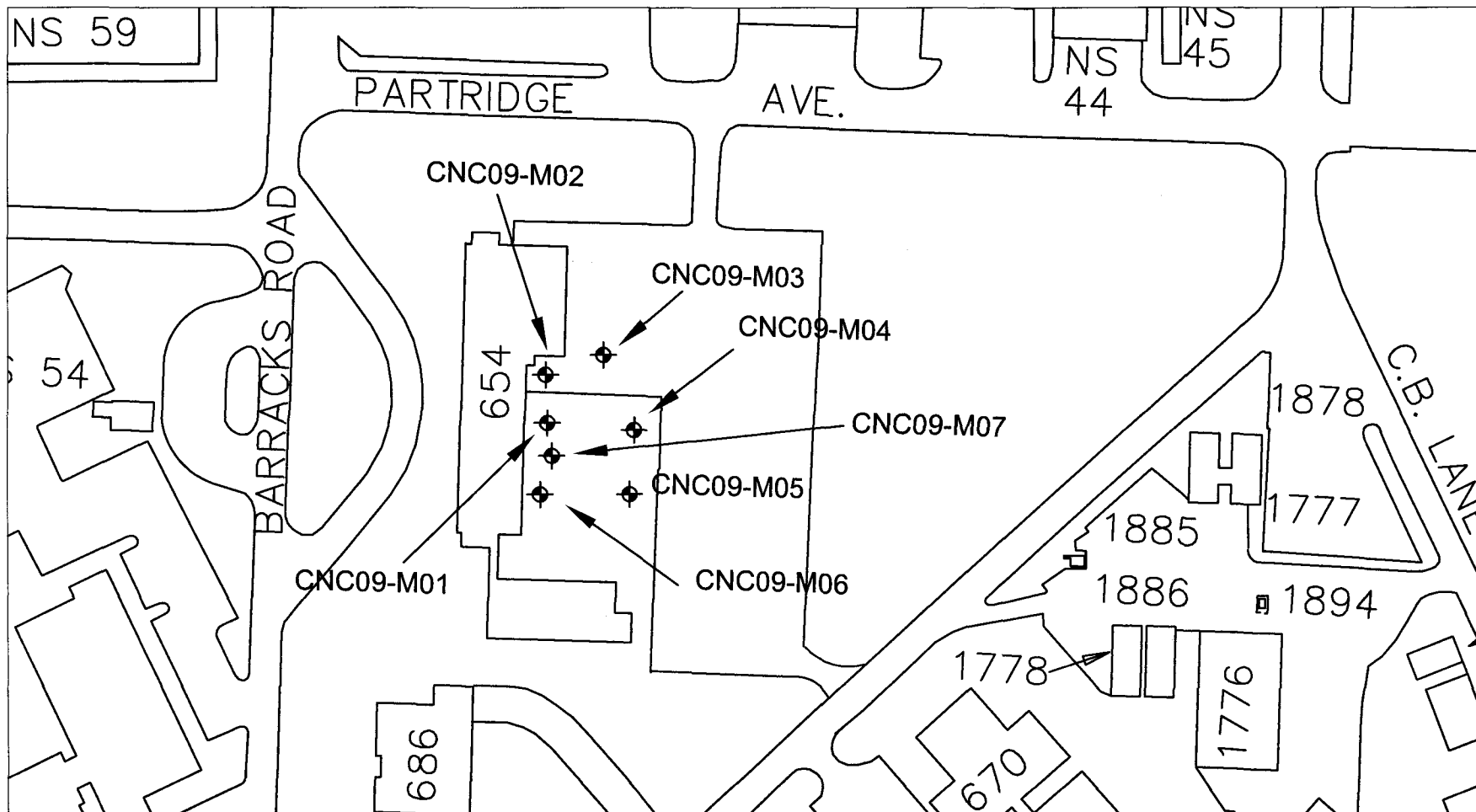
ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 01165
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	647WELLS	SHEET	1 OF 1



COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)



Environmental & Construction Services

ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
N. CHARLESTON, SC 29402-2106

ABANDONED MONITORING WELLS
DHEC SITE 00963
CHARLESTON NAVAL BASE, CHARLESTON, SC

DRAWN BY: L. DIASIO

SIZE
A

DWG NO.

654MWELLS

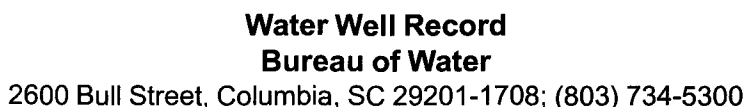
REV

CHECKED BY: L. DIASIO

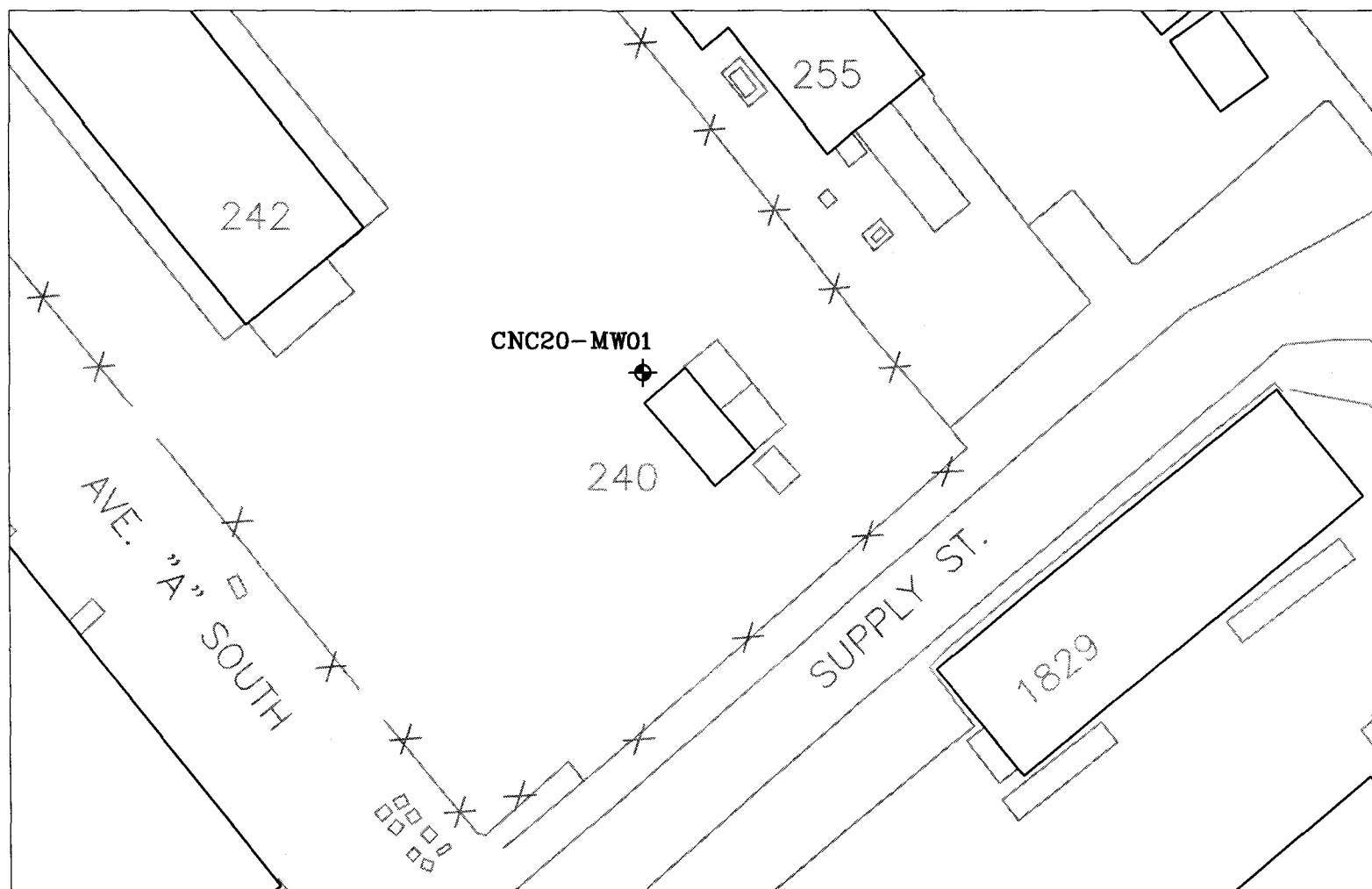
SCALE GRAPHIC

14 DEC 01

SHEET 1 OF 1



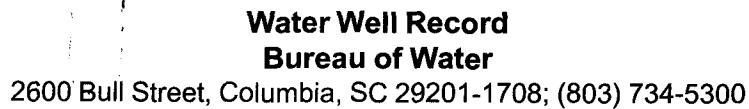
COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)



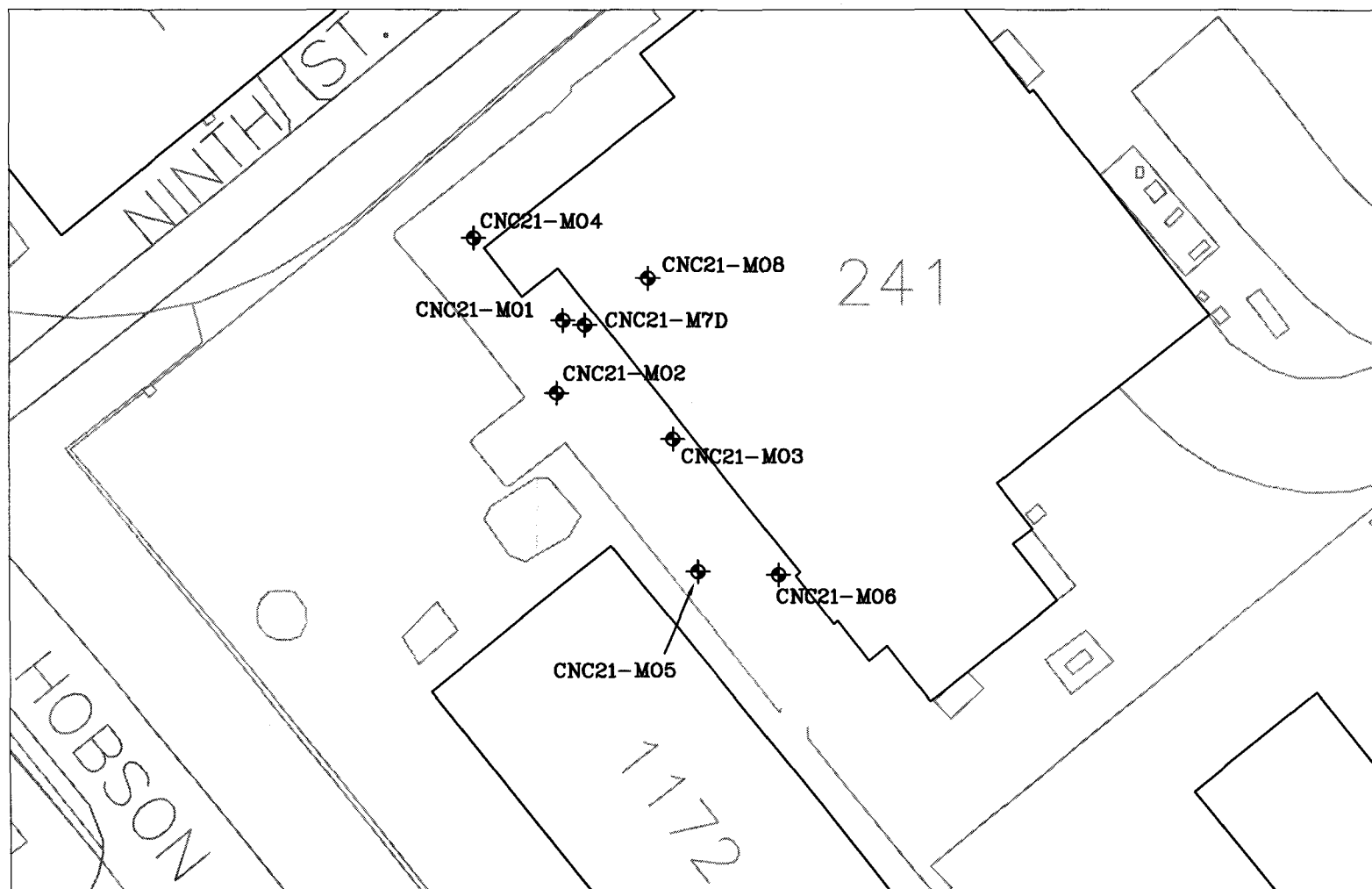
ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 14689
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

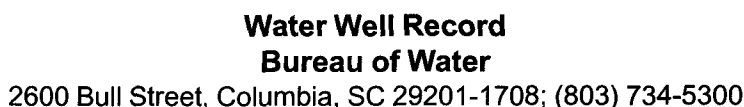
DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	QTRSCWELLS	SHEET	1 OF 1



COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)



ENVIRONMENTAL ENTERPRISE GROUP, INC. 1949 AVENUE D NORTH CHARLESTON, SOUTH CAROLINA 29405			
ABANDONED MONITORING WELLS SC DHEC SITE 17706 CHARLESTON NAVAL COMPLEX, N. CHAS, SC			
DATE 12-15-01	PREPARED BY: L. C. DIASIO	REV -	
SCALE NONE	DWG NUMBER QTRSCWELLS	SHEET 1 OF 1	



County:	Charleston	System Name:	
Latitude:		Longitude:	
Distance and Direction from Road Intersections:			
St Address & City of Well Loc: 1400 Avenue A South, N. Cha			

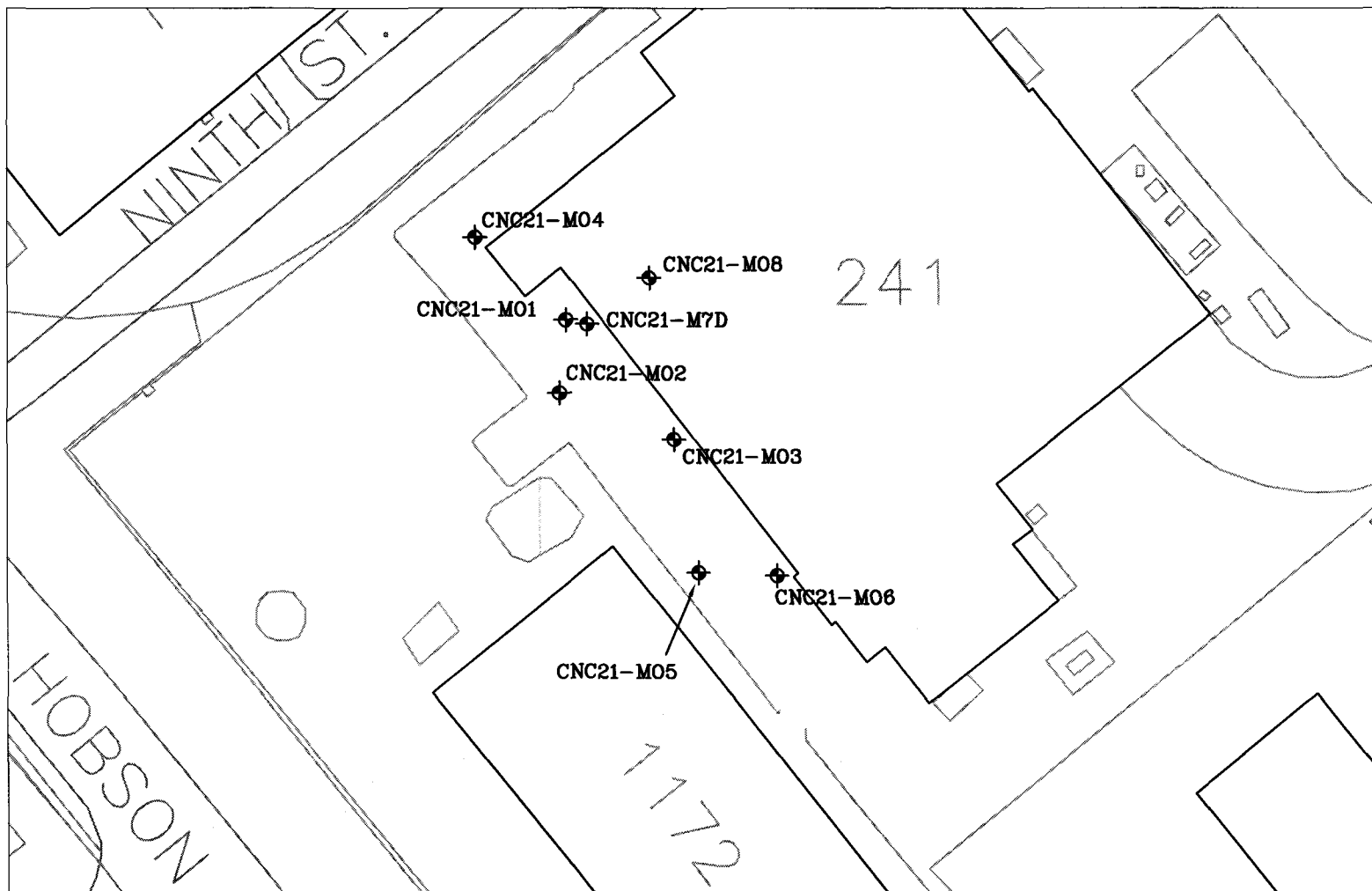
See Map. Well Number: CNC21-M03

Geophysical Logs: ☐ Yes (please enclose) ☐ No

[illegible]

Zone F, Site 21/ Building 241, DHEC ID# 17706

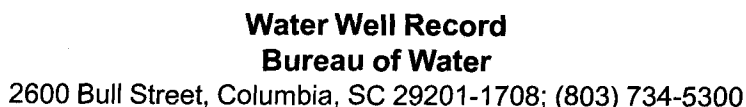
Registered Business Name: EEG, INC Date: _____
Address: 1949 AVENUE D, N. CHAR, SC 294
Signed: Thomas A Bruner Jr Cert. No.: 54
Authorized Representative



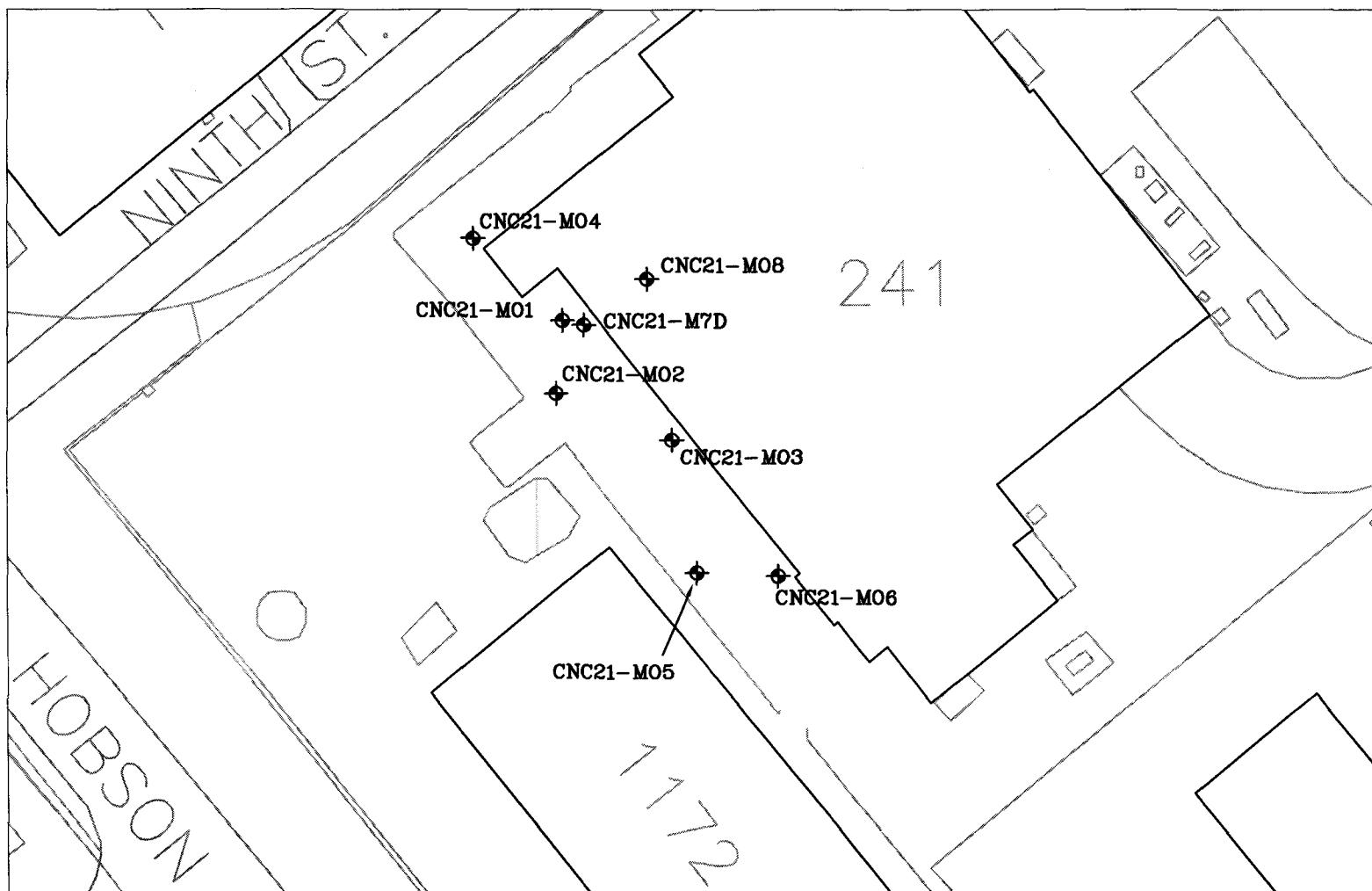
ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 17706
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	QTRSCWELLS	SHEET	1 OF 1



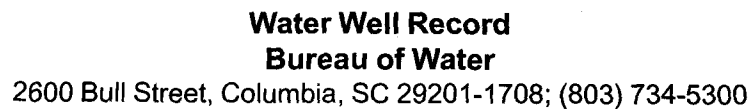
COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)



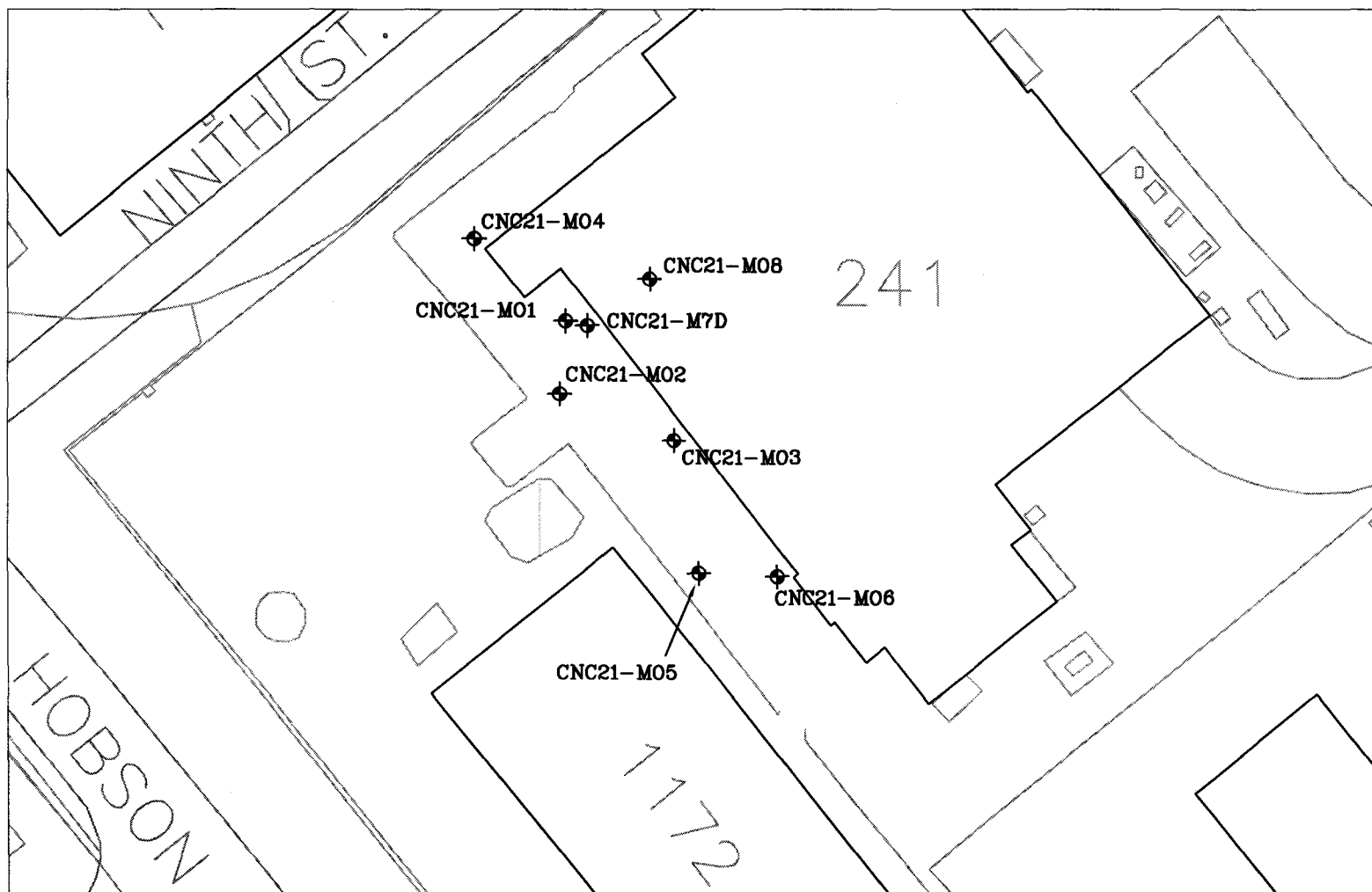
ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 17706
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	QTRSCWELLS	SHEET	1 OF 1



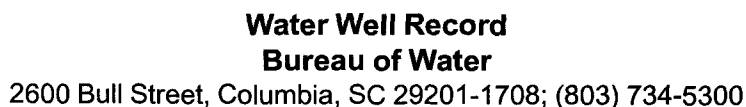
COPY 1 MAIL TO: S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (ADDRESS ABOVE)

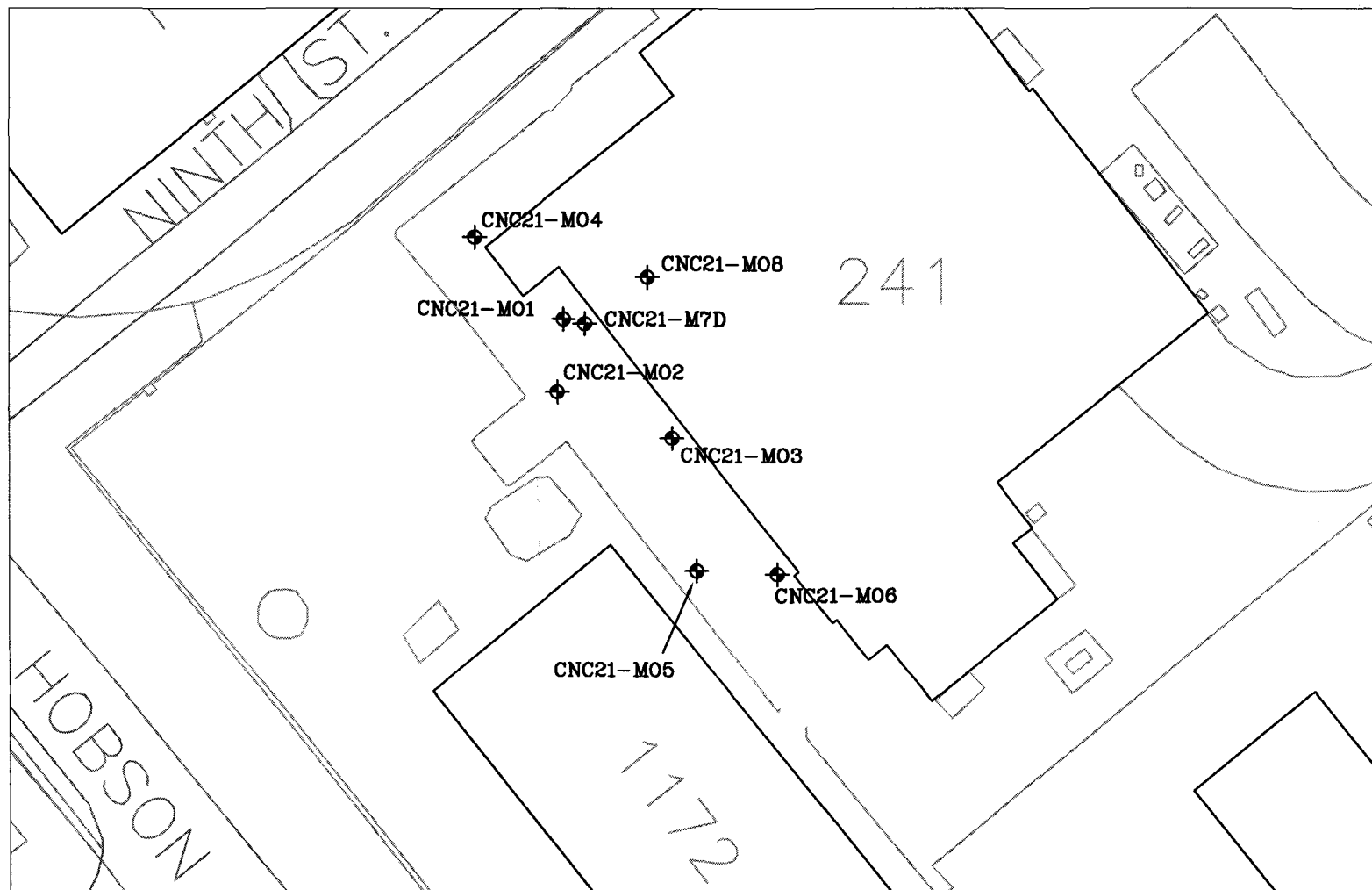


ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 17706
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	QTRSCWELLS	SHEET	1 OF 1

DHEC 1903 (10/96)



ENVIRONMENTAL ENTERPRISE GROUP, INC.
1848 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 17706
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	QTRSCWELLS	SHEET	1 OF 1



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 734-5300

1. LOCATION OF WELL:

County: Charleston System Name:

Latitude: Longitude:

Distance and Direction from Road Intersections:

St Address & City of Well Loc: 1400 Avenue A South, N. Cha

Sketch Map:

See Map. Well Number: CNC21-M08

4. OWNER OF WELL: Department of the Navy

Address:

Telephone No.:

Engineer:

Address:

Telephone No.:

5. WELL DEPTH (completed)

Date Started:

Date Completed:

6. ☐ Mud Rotary

☐ Jetted

☐ Bored

☐ Dug

☐ Air Rotary

☐ Driven

☐ Cable tool

☐ Other

7. USE:

☐ Domestic

☐ Public Supply-Permit No. _____

☐ Industry

☐ Irrigation

☐ Air Conditioning

☐ Commercial

☐ Test Well

☒ Monitor Well

☐ _____

8. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC

☐ Galvanized

☐ Steel

☒ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

2. CUTTING SAMPLES:

☐ s

☐ p

Geophysical Logs:

☐ s (please enclose)

☐ p

Formation Description

*Thickness
of
Stratum

Depth to
Bottom of
Stratum

9. SCREEN

Type: _____

Diam.:

Slot Gauge: _____

Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

Sieve Analysis ☐ Yes (please enclose) ☐ No

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

10. STATIC WATER LEVEL

_____ ft. below land surface after 24 hours

11. PUMPING LEVEL Below Land Surface.

_____ ft. after _____ hrs. Pumping _____ G.P.M.

Pumping Test: ☐ Yes (please enclose) ☐ No

Yield: _____

12. WATER QUALITY

Chemical Analysis ☐ Yes ☐ No

Bacterial Analysis ☐ Yes ☐ No

Please enclose lab results.

13. ARTIFICIAL FILTER (gravel pack) ☐ Yes ☐ No

Installed from _____ ft. to _____ ft.

Effective size _____ Uniformity Coefficient _____

14. WELL GROUTED? ☐ Yes ☐ No

☐ Neat Cement ☐ Sand Cement ☐ Concrete ☐ Other _____

Depth: From _____ ft. to _____ ft.

15. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction

_____ Type well disinfected ☐ Yes Type: _____

upon completion ☐ No Amount: _____

16. PUMP: Date installed: _____ Not installed ☒

Mfr. Name: _____ Model No.: _____

H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm

TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine

☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

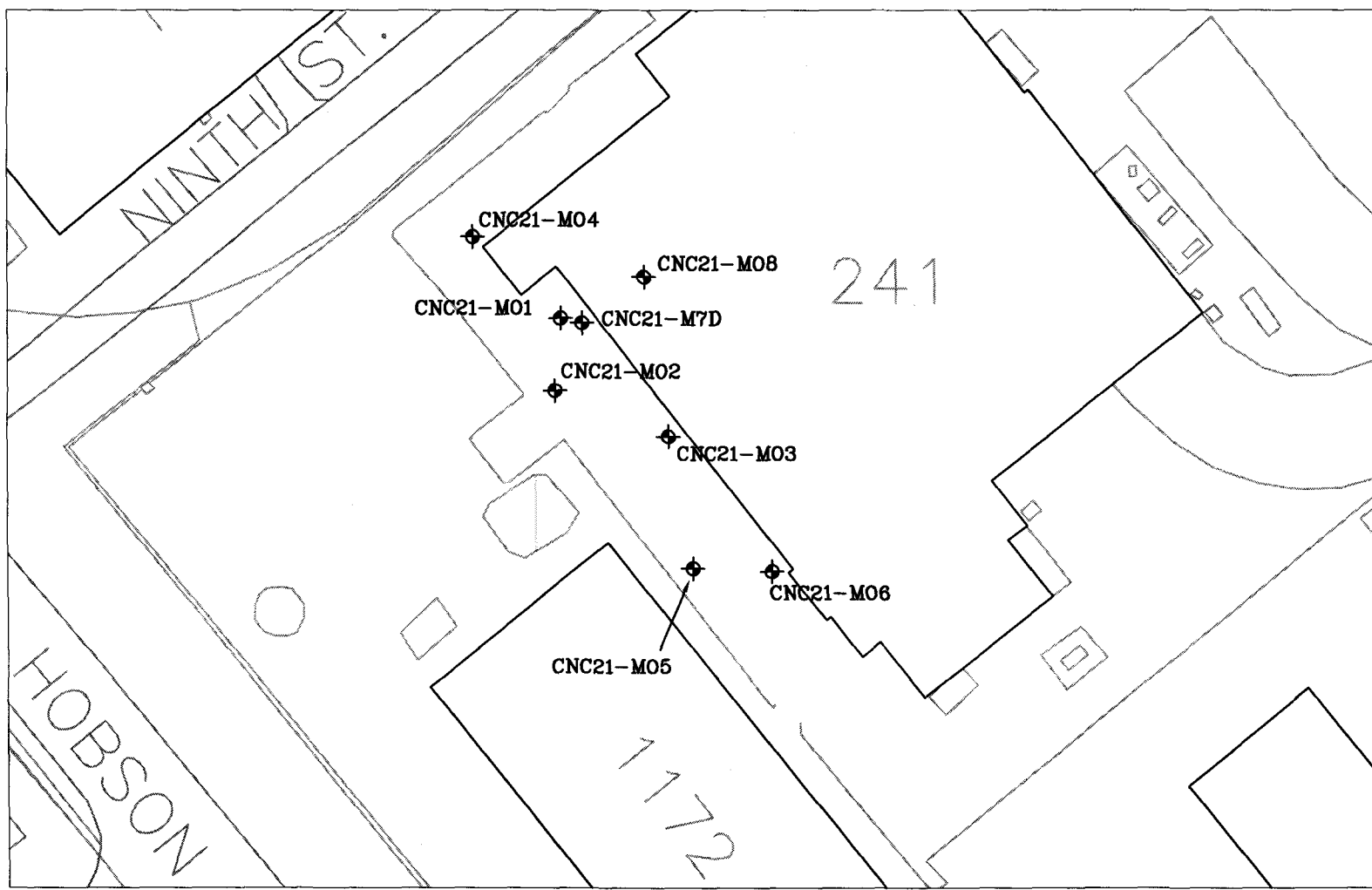
17. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Registered Business Name: EEG, INC Date: _____

Address: 1949 AVENUE D, N. CHS, SC 29405

Signed: Thomas A. Brown Jr. Cert. No. 54

Authorized Representative



ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 17706
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	QTRSCWELLS	SHEET	1 OF 1



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 734-5300

1. LOCATION OF WELL:

County: Charleston System Name: _____

Latitude: _____ Longitude: _____

Distance and Direction from Road Intersections: _____

St Address & City of Well Loc: 1400 Avenue A South, N. Cha

Sketch Map: _____

See Map. Well Number: CNC21-M08

4. OWNER OF WELL: Department of the Navy

Address: _____

Telephone No.: _____

Engineer: _____

Address: _____

Telephone No.: _____

5. WELL DEPTH (completed)

Date Started: _____

Date Completed: _____

6. ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug
☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. USE:

- ☐ Domestic ☐ Public Supply—Permit No. _____ ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☒ Monitor Well ☐ _____

8. CASING: ☐ Threaded ☐ Welded

Diam.: _____

Type: ☐ PVC ☐ Galvanized

☐ Steel ☒ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

2. CUTTING SAMPLES:

☐ s ☐ p

Geophysical Logs: ☐ s (please enclose) ☐ p

9. SCREEN

Type: _____

Diam.: _____

Slot Gauge: _____

Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

**NOTE: MULTIPLE SCREENS
USE SECOND SHEET**

Sieve Analysis ☐ Yes (please enclose) ☐ No

10. STATIC WATER LEVEL

_____ ft. below land surface after 24 hours

11. PUMPING LEVEL Below Land Surface.

_____ ft. after _____ hrs. Pumping _____ G.P.M.

Pumping Test: ☐ Yes (please enclose) ☐ No

Yield: _____

12. WATER QUALITY

Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No

Please enclose lab results.

13. ARTIFICIAL FILTER (gravel pack) ☐ Yes ☐ No

Installed from _____ ft. to _____ ft.

Effective size _____ Uniformity Coefficient _____

14. WELL GROUTED? ☐ Yes ☐ No

☐ Neat Cement ☐ Sand Cement ☐ Concrete ☐ Other _____

Depth: From _____ ft. to _____ ft.

15. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction

_____ Type well disinfected ☐ Yes Type: _____

upon completion ☐ No Amount: _____

16. PUMP: Date installed: _____ Not installed ☒

Mfr. Name: _____ Model No.: _____

H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm

TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine

☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

17. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Registered Business Name: EEG, INC Date: _____

Address: 1949 AVENUE D, N. CHS, SC 29405

Signed: Thom A. Brown Cert. No.: 54

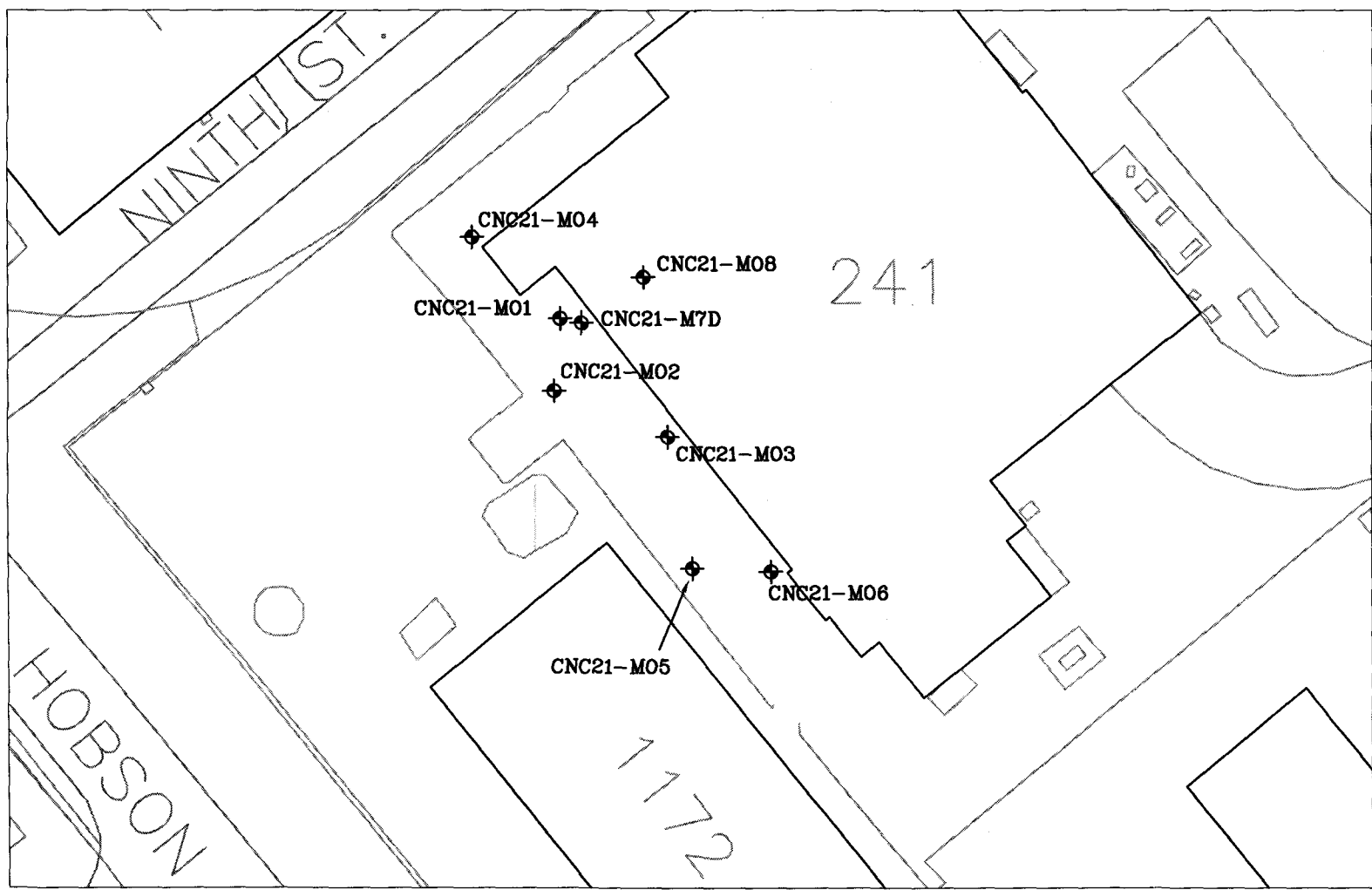
Authorized Representative

*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

3. REMARKS:

Zone F, Site 21/ Building 241, DHEC ID# 17706



ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
NORTH CHARLESTON, SOUTH CAROLINA 29405

ABANDONED MONITORING WELLS
SC DHEC SITE 17706
CHARLESTON NAVAL COMPLEX, N. CHAS, SC

DATE	12-15-01	PREPARED BY:	L. C. DIASIO	REV	-
SCALE	NONE	DWG NUMBER	QTRSCWELLS	SHEET	1 OF 1



Water Well Record Bureau of Water

2600 Bull Street, Columbia, SC 29201-1708; (803) 734-5300

1. LOCATION OF WELL:

County: Charleston

System Name:

Latitude:

Longitude:

Distance and Direction from Road Intersections:

Street Address & City of Well 1200 Navy Way, N. Chas.

Sketch Map:

Well Number: CNC28-M03

See attached map for well location.

2. CUTTING SAMPLES: ☐ Yes ☐ No

Geophysical Logs: ☐ Yes (please enclose) ☐ No

Formation Description

*Thickness
of
Stratum

Depth to
Bottom of
Stratum

4. OWNER OF WELL: Department of the Navy
Address:

Telephone No.:

Engineer:

Address:

Telephone No.:

5. WELL DEPTH (completed)

Date Started:

Date Completed:

6. ☐ Mud Rotary ☐ Jetted ☐ Bored ☐ Dug
☐ Air Rotary ☐ Driven ☐ Cable tool ☐ Other

7. USE:

☐ Domestic ☐ Public Supply—Permit No. _____ ☐ Industry
☐ Irrigation ☐ Air Conditioning ☐ Commercial
☐ Test Well ☒ Monitor Well ☐ _____

8. CASING: ☐ Threaded ☐ Welded

Diam.:

Type: ☐ PVC ☐ Galvanized

☐ Steel ☐ Other

_____ in. to _____ ft. depth

_____ in. to _____ ft. depth

Height: Above/Below

Surface _____ ft.

Weight _____ lb./ft.

Drive Shoe? ☐ Yes ☐ No

9. SCREEN

Type: _____ Diam.: _____

Slot/Gauge: _____ Length: _____

Set Between: _____ ft. and _____ ft.

_____ ft. and _____ ft.

Sieve Analysis ☐ Yes (please enclose) ☐ No

NOTE: MULTIPLE SCREENS
USE SECOND SHEET

10. STATIC WATER LEVEL

_____ ft. below land surface after 24 hours

11. PUMPING LEVEL Below Land Surface.

_____ ft. after _____ hrs. Pumping _____ G.P.M.

Pumping Test: ☐ Yes (please enclose) ☐ No

Yield: _____

12. WATER QUALITY

Chemical Analysis ☐ Yes ☐ No Bacterial Analysis ☐ Yes ☐ No

Please enclose lab results.

13. ARTIFICIAL FILTER (gravel pack) ☐ Yes ☐ No

Installed from _____ ft. to _____ ft.

Effective size _____ Uniformity Coefficient _____

14. WELL GROUTED? ☐ Yes ☐ No

☒ Neat Cement ☐ Sand Cement ☐ Concrete ☐ Other _____

Depth: From _____ ft. to _____ ft.

15. NEAREST SOURCE OF POSSIBLE CONTAMINATION: _____ ft. _____ direction

_____ Type well disinfected ☐ Yes Type: _____

upon completion ☐ No Amount: _____

16. PUMP: Date installed: _____ Not installed ☒

Mfr. Name: _____ Model No.: _____

H.P. _____ Volts _____ Length of drop pipe _____ ft. Capacity _____ gpm

TYPE: ☐ Submersible ☐ Jet (shallow) ☐ Turbine

☐ Jet (deep) ☐ Reciprocating ☐ Centrifugal

17. WATER WELL CONTRACTOR'S CERTIFICATION: This well was drilled under my direction and this report is true to the best of my knowledge and belief.

Registered Business Name: EEG, Inc.

Date: _____

Address: 1949 Avenue D, N. Charleston, SC 29405

Signed: Thomas A. Brumby
Authorized Representative

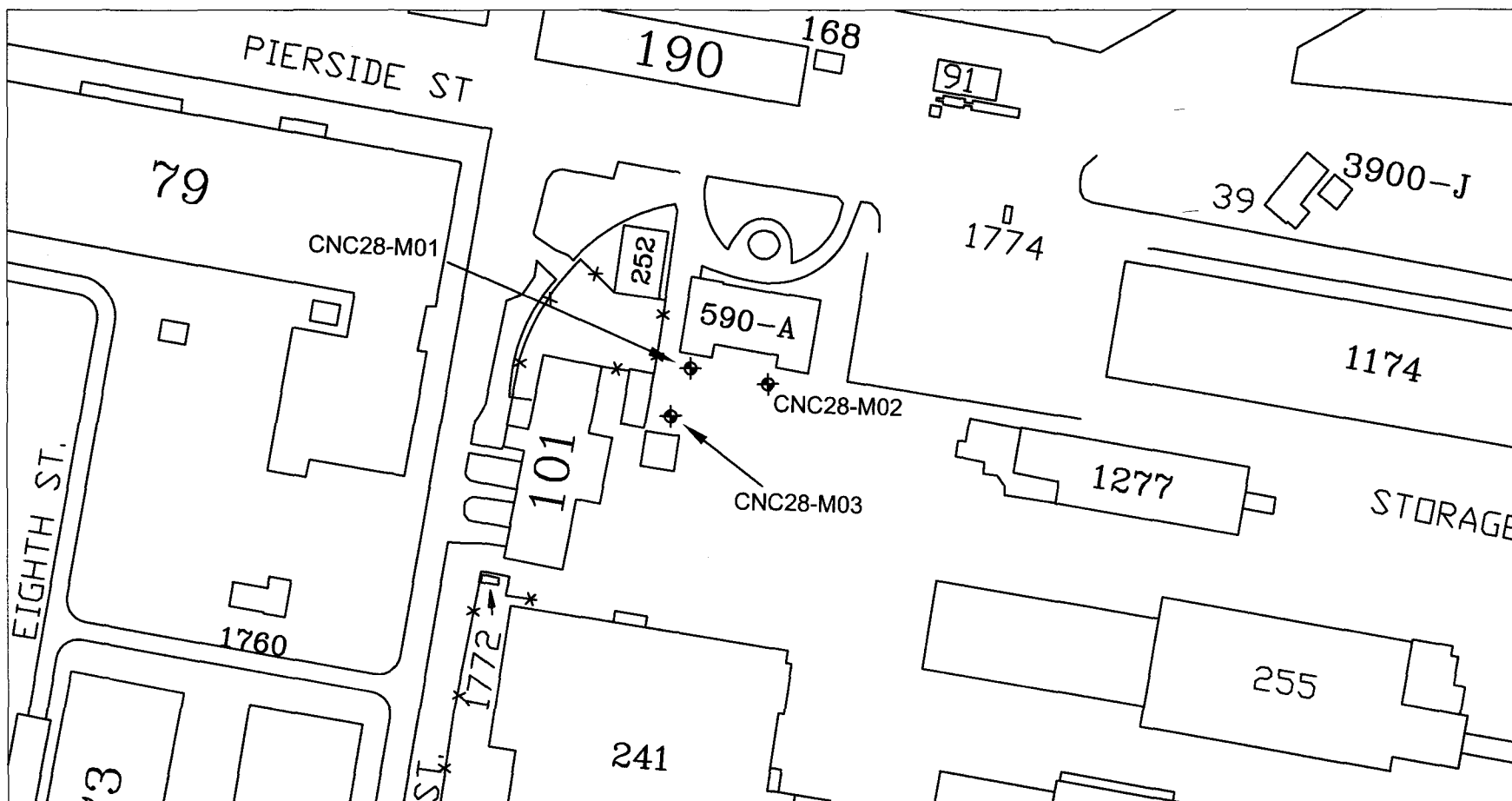
Cert. No.: 59

*Indicate Water Bearing Zones

(Use a 2nd sheet if needed)

3. REMARKS:

Zone E, Site 28 / Building 590A, DHEC ID# 00956



ENVIRONMENTAL ENTERPRISE GROUP, INC.
1949 AVENUE D
N. CHARLESTON, SC 29402-2106

ABANDONED MONITORING WELLS
DHEC SITE 00956
CHARLESTON NAVAL BASE, CHARLESTON, SC

DRAWN BY: L. DIASIO

SIZE
A

DWG NO.

590AMWELLS

REV

CHECKED BY: L. DIASIO

SCALE GRAPHIC

14 DEC 01

SHEET 1 OF 1